ASG-Recap™ Installation Guide

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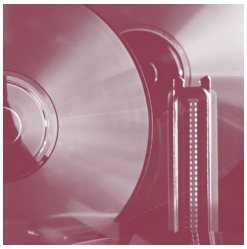

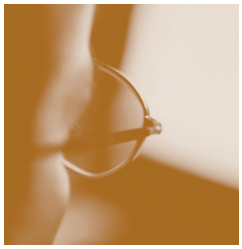

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4	"How-to" questions and enhancement requests	Within 4 hours

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France	00.800.3354.3578	**Singapore**	001.800.3354.3578
Germany	00.800.3354.3578	**South Korea**	001.800.9932.5536
Hong Kong	001.800.9932.5536	**Sweden/Telia**	009.800.9932.5536
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If you do not have access to the web, FAX your suggestions to product management at (941) 263-3692. Please include your name, company, work phone, e-mail ID, and the name of the ASG product you are using. For documentation suggestions include the publication number located on the publication's front cover.

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Preface

This *ASG-Recap Installation Guide* provides information for installing and maintaining ASG-Recap (herein called Recap). Recap is the Portfolio Analysis component of the ASG-Existing Systems Workbench (herein called ESW), which automates the time consuming and error prone process of conducting an inventory analysis of COBOL applications within an MIS environment.

Allen Systems Group, Inc. (ASG) provides professional support to resolve any questions or concerns regarding the installation or use of any ASG product. Telephone technical support is available around the world, 24 hours a day, 7 days a week.

ASG welcomes your comments, as a preferred or prospective customer, on this publication or on any ASG product.

About this Publication

This publication consists of these chapters:

- Chapter 1, "Introduction," discusses the concepts of Recap.
- Chapter 2, "Recap Customization," describes customization of specific Recap components, invoking Recap, and validating the installation.

Related Publications

The documentation library for ASG-Recap consists of these publications (where *nn* represents the product version number):

- ASG-*Application Definition and Analysis User's Guide* (ALL0200-*nn*) describes defining and analyzing an application in ASG-Alliance, ASG-Recap, and ASG-Estimate.
- *ASG-Center Installation Guide* (CNX0300-*nn*) provides installation and customization procedures for ASG-Center, the common platform for all ASG-ESW components. ASG-Center must be installed before installing ASG-Recap.
- *ASG-Recap Installation Guide* (RCX0300-*nn*) provides information for installing and maintaining ASG-Recap.
- *ASG-Recap User's Guide* (RCX0200-*nn*) provides instructions for using ASG-Recap for application definition and report generation.

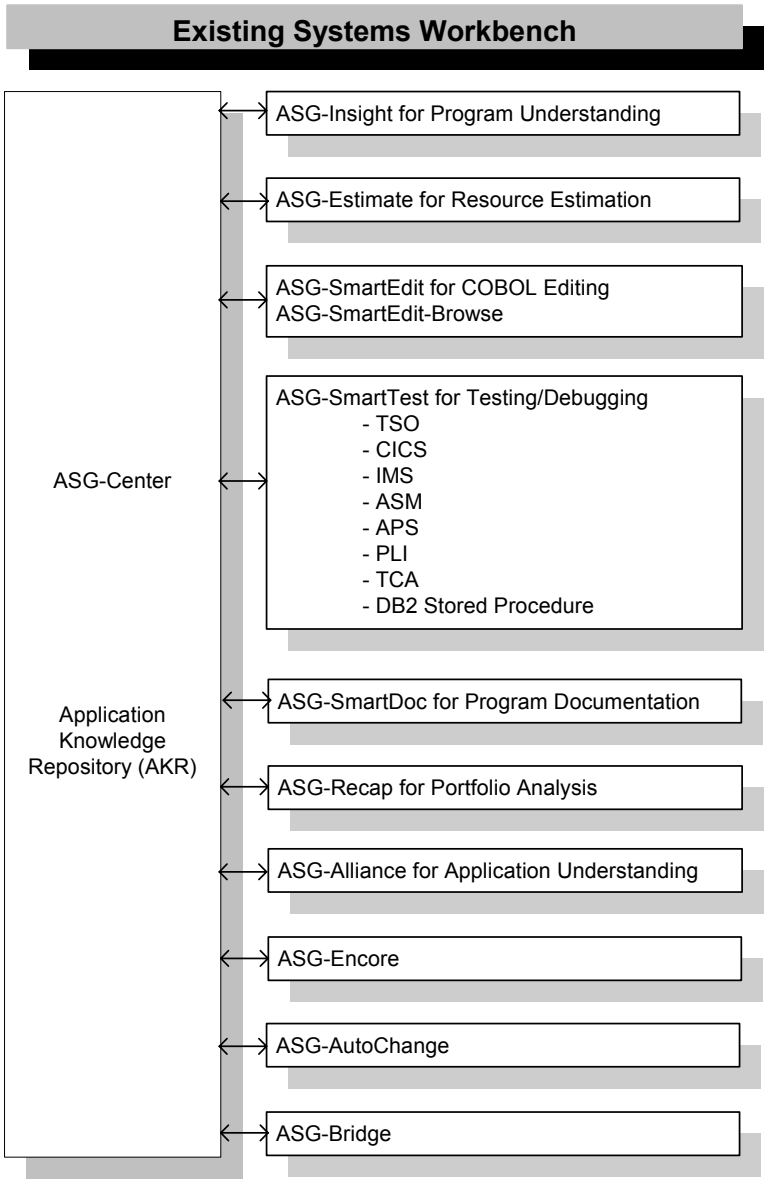
Note:

To obtain a specific version of a publication, contact the ASG Service Desk.

ASG-Existing Systems Workbench (ASG-ESW)

ASG-ESW (herein called ESW) is an integrated suite of components designed to assist organizations in enhancing, redeveloping, or re-engineering their existing systems. ESW products use the Application Knowledge Repository (AKR) to store source program analysis information generated by the Analytical Engine. Figure 1 represents the components of ESW.

Figure 1 • ASG Existing Systems Workbench



This table contains the name and description of each ESW component:

ESW Product	Herein Called	Description
ASG-Alliance	Alliance	The application understanding component that is used by IT professionals to conduct an analysis of every application in their environment. Alliance supports the analysis and assessment of the impact of change requests upon an entire application. Alliance allows the programmer/ analyst to accurately perform application analysis tasks in a fraction of the time it would take to perform these tasks without an automated analysis tool. The impact analysis from Alliance provides application management with additional information for use in determining the resources required for application changes.
ASG-AutoChange	AutoChange	The COBOL code change tool that makes conversion teams more productive by enabling quick and safe changes to be made to large quantities of code. AutoChange is an interactive tool that guides the user through the process of making source code changes.
ASG-Bridge	Bridge	The bridging product that enables field expansion for program source code, without being required to simultaneously expand the fields in files or databases. Because programs are converted in smaller groups, or on a one-by-one basis, and do not require file conversion, testing during the conversion process is simpler and more thorough.
ASG-Center	Center	The common platform for all ESW products. Center provides the common Analytical Engine to analyze the source program and store this information in the AKR. This common platform provides a homogeneous environment for all ESW products to work synergistically.

ESW Product	Herein Called	Description
ASG-Encore	Encore	The program re-engineering component for COBOL programs. Encore includes analysis facilities and allows you to extract code based on the most frequently used re-engineering criteria. The code generation facilities allow you to use the results of the extract to generate a standalone program, a callable module, a complement module, and a CICS server. Prior to code generation, you can view and modify the extracted Logic Segment using the COBOL editor.
ASG-Estimate	Estimate	The resource estimation tool that enables the user to define the scope, determine the impact, and estimate the cost of code conversion for COBOL, Assembler, and PL/I programs. Estimate locates selected data items across an application and determines how they are used (moves, arithmetic operations, and compares). Time and cost factors are applied to these counts, generating cost and personnel resource estimates.
ASG-Insight	Insight	The program understanding component for COBOL programs. Insight allows programmers to expose program structure, identify data flow, find program anomalies, and trace logic paths. It also has automated procedures to assist in debugging program abends, changing a computation, and resolving incorrect program output values.
ASG-Recap	Recap	The portfolio analysis component that evaluates COBOL applications. Recap reports provide function point analysis and metrics information, program quality assessments, intra-application and inter-application comparisons and summaries, and historical reporting of function point and metrics information. The portfolio analysis information can also be viewed interactively or exported to a database, spreadsheet, or graphics package.
ASG-SmartDoc	SmartDoc	The program documentation component for COBOL programs. SmartDoc reports contain control and data flow information, an annotated source listing, structure charts, program summary reports, exception reports for program anomalies, and software metrics.

ESW Product	Herein Called	Description
ASG-SmartEdit	SmartEdit	The COBOL editing component that can be activated automatically when the ISPF/PDF Editor is invoked. SmartEdit provides comprehensive searching, inline copybook display, and syntax checking. SmartEdit allows you to include an additional preprocessor (for example, the APS generator) during syntax checking. SmartEdit supports all versions of IBM COBOL, CICS, SQL, and CA-IDMS.
ASG-SmartTest	SmartTest	The testing/debugging component for COBOL, PL/I, Assembler, and APS programs in the TSO, MVS Batch, CICS (including file services), and IMS environments. SmartTest features include program analysis commands, execution control, intelligent breakpoints, test coverage, pseudo code with COBOL source update, batch connect, disassembled object code support, and full screen memory display.

Invoking ESW Products

The method you use to invoke an ESW product depends on your system setup. If you need assistance to activate a product, see your systems administrator. If your site starts a product directly, use the ISPF selection or CLIST as indicated by your systems administrator. If your site uses the ESW screen to start a product, initiate the ESW screen using the ISPF selection or CLIST as indicated by your systems administrator and then typing in the product command on the command line.

The product names can also vary depending on whether you access a product directly or through ESW. See "ESW Product Integration" on page ix for more information about using ESW.

To initialize ESW products from the main ESW screen, select the appropriate option on the action bar pull-downs or type the product shortcut on the command line.

Product Name	Shortcut	ESW Pull-down Options
Alliance	AL	Understand ▸ Application
AutoChange	CC	Change ▸ Conversion Set
Bridge	BR	Change ▸ ASG-Bridge
Encore (Re-engineer)	EN	Re-engineer ▸ Program
Estimate	ES	Measure ▸ ASG-Estimate
Insight (Understand)	IN	Understand ▸ Program
Recap (Portfolio Analysis)	RC	Measure ▸ Portfolio
SmartDoc (Document)	DC	Document ▸ Program
SmartEdit	SE	Change ▸ Program **Or** Change ▸ Program with Options
SmartTest	ST	Test ▸ Module/Transaction

ESW Product Integration

Because ESW is an integrated suite of products, you are able to access individual ESW products directly or through the main ESW screen. As a result, you might see different fields, values, action bar options, and pull-down options on a screen or pop-up depending on how you accessed the screen or pop-up.

Certain ESW products also contain functionality that interfaces with other ESW products. Using SmartTest as an example, if Alliance is installed, SmartTest provides a dynamic link to Alliance that can be used to display program analysis information. If Insight is installed and specified during the analyze, the Insight program analysis functions are automatically available for viewing logic/data relationships and execution path. For example, the Scratchpad option is available on the Options pull-down if you have Insight installed. Access to these integrated products requires only that they be installed and executed in the same libraries.

Examples

Example 1. Figure 2 shows the Encore Primary screen that displays when you access Encore directly.

The Encore Primary screen contains these eight action bar menu items: File, View, Extract, Generate, Search, List, Options, and Help.

Figure 2 • Encore Primary Screen

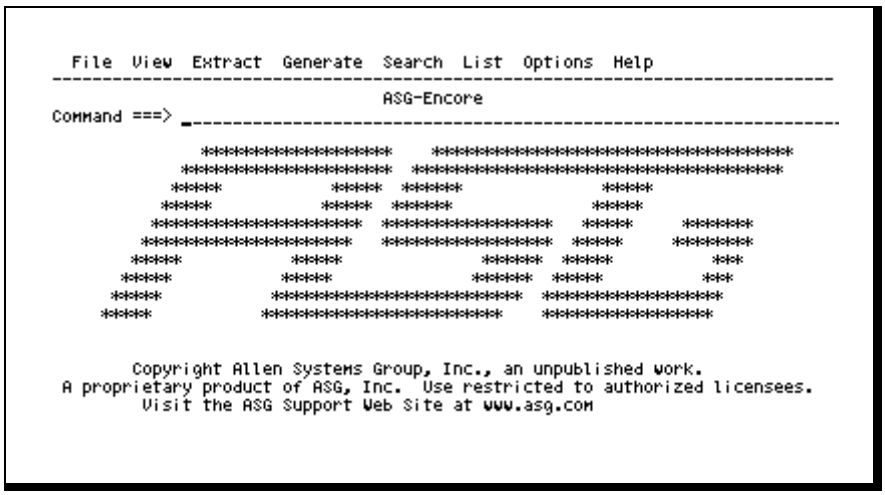
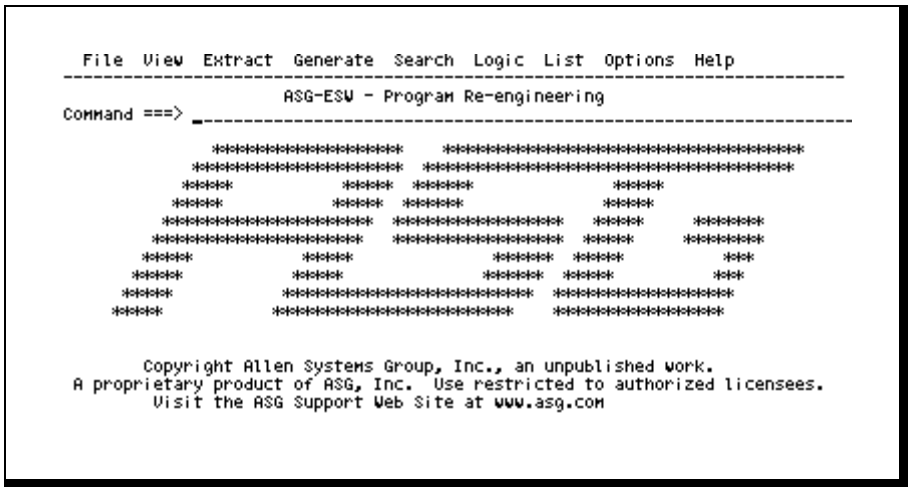


Figure 3 shows the Encore Primary screen that displays when you access Encore through ESW by selecting Re-engineer ▸ Program from the ESW action bar menu. Notice that the Primary screen name changes to ASG-ESW - Program Re-engineering when you enter Encore through ESW. Also, the Logic menu item displays if Insight is installed.

Figure 3 • ESW Encore Primary Screen



Example 2. Figure 4 shows the File - Analyze Submit pop-up that displays when you access SmartTest directly. Figure 5 shows the File - Analyze Submit pop-up that displays when you access SmartTest through ESW.

Notice that the Analyze features field in Figure 5 lists additional ESW products than shown on Figure 4. This field is automatically customized to contain the ESW products you have installed on your system.

The actions shown on these screens also vary. For example, the D action (ASG-SmartDoc Options) is available on the File - Analyze Submit screen if the SmartDoc product is installed on your system. In Figure 4, the ASG-SmartDoc Options action is not available.

Figure 4 • File - Analyze Submit Screen

```
                          File - Analyze Submit
Command ===> ____________________________________________________________

          E - Edit JCL                                S - Submit JCL

Compile and link JCL (PDS or sequential):
   Data set name  'USER12.REL.CNTL(VIAPCOBC)'

Analyze features (Y/N):
   ASG-SmartTest:  Y   Extended Analysis:  N

AKR data set name 'USER12.GENERAL.AKR'
AKR program name                       (if overriding PROGRAM-ID)

Analyze options:
   ____________________________________________________________________
   ____________________________________________________________________
   ____________________________________________________________________

Compile? (Y/N) . . . . . . . . . . Y     (Y if needed by features)
Link load module reusable? (Y/N) Y
```

Figure 5 • File - Analyze Submit Screen (Accessed through ESW)

```
                          File - Analyze Submit
Command ===> ____________________________________________________________

          E - Edit JCL     S - Submit JCL     D - ASG-SmartDoc Options

Compile and link JCL (PDS or sequential):
   Data set name  'USER12.REL.CNTL(HTEST)'

Analyze features (Y/N):
   ASG-Insight:  Y   ASG-SmartTest:  Y   Extended Analysis:  N
   ASG-SmartDoc:  N   ASG-Encore:  N
AKR data set name 'USER12.GENERAL.AKR'
AKR program name  __________           (if overriding PROGRAM-ID)

Analyze options:
   ____________________________________________________________________
   ____________________________________________________________________
   ____________________________________________________________________

Compile? (Y/N) . . . . . . . . . . Y     (Y if needed by features)
Link load module reusable? (Y/N) Y     (ASG-SmartTest
```

Publication Conventions

ASG uses these conventions in technical publications:

Convention	Represents
ALL CAPITALS	Directory, path, file, dataset, member, database, program, command, and parameter names.
Initial Capitals on Each Word	Window, field, field group, check box, button, panel (or screen), option names, and names of keys. A plus sign (+) is inserted for key combinations (e.g., Alt+Tab).
`lowercase italic monospace`	Information that you provide according to your particular situation. For example, you would replace *`filename`* with the actual name of the file.
`Monospace`	Characters you must type exactly as they are shown. Code, JCL, file listings, or command/statement syntax. Also used for denoting brief examples in a paragraph.
Vertical Separator Bar (|) with underline	Options available with the default value underlined (e.g., Y|N).

1 Introduction

This chapter discusses the concepts of Recap and contains these sections:

Section	Page
ASG Service Pack	1
Recap Concepts	2
Recap Features	2
Operating Environment	3

Note:

Center installation and customization must be performed before installing Recap. If Center has not been installed, see the *ASG-Center Installation* Guide at this time.

ASG Service Pack

Verify whether you received an ASG Service Pack for this product. If so, read the instructions for installing the Service Pack before proceeding with the product installation. The installation instructions are located in the text file on the distribution media included with the Service Pack. If you have any problems with the Service Pack, contact the ASG Service Desk.

Recap Concepts

Recap provides IT professionals with an automated tool to conduct an inventory analysis of every COBOL application in their environment. Using industry-accepted measures, Recap analyzes an application and provides:

- Metrics data
- Function point analysis
- Program quality assessments
- Intra-application and inter-application comparisons and summaries
- The ability to track the impact of process improvements and specific program changes and enhancements.

Data generated from a Recap analysis can be presented in easy-to-read report formats. Recap also provides an export facility to export inventory analysis data to spreadsheets, database managers, and presentation packages. In these formats, you can easily access the information to support these management activities:

- Information service quality and productivity measurement and improvement programs.
- Feasibility, selection, and cost benefit of redevelopment and/or re-engineering projects.
- Allocation and justification of resources.
- Scheduling of new software development projects.
- Scheduling of software maintenance and enhancement.

Recap Features

Recap provides an automated method to perform an inventory analysis of every COBOL application in an MIS environment. Recap has an interactive user interface for creating and viewing this information:

- Viewing the inventory analysis information generated from the analysis
- Adjusting the function point analysis data

Operating Environment

Recap has these mainframe environment requirements:

Platform	Software
Host	• MVS/XA, MVS/ESA, or OS/390 • VSAM or sequential file for the ESW AKR. • Storage above the 16MB line is used for load modules and GETMAINs. • Direct Access storage. (See the *ASG-Center Installation Guide* for quantities). • 3270 type terminals; Models 2, 3, 4, or 5

COBOL Compiler Support

Recap supports these COBOL compilers:

Product	COBOL Compiler
Compiler	• COBOL/370 • COBOL II (including releases 3 and 4) • ANSI COBOL • CASE Generated COBOL • COBOL for MVS and VM • COBOL for OS/390

Preprocessor Support

Recap supports these preprocessor languages directly:

Product	Language
Processor	• Command Level CICS • Command Level DL/I • IDMS • SQL

Note:

Other preprocessed languages are not recognized, but can be supported from the generated COBOL code.

2 Recap Customization

This chapter describes customization of the specific Recap components, invoking Recap, and validating the installation and contains these sections:

Section	Page
Prerequisite	5
Step 1 - Modifying CNTL Library Members	6
Step 2 - Adding Recap Load Modules to MLPA/PLPA	8
Step 3 - Customizing Panvalet, Librarian or User Source Manager	8
Step 4 - Invoking Recap	10
Step 5 - Validating Recap	11

Prerequisite

Center installation and customization must be performed before customizing Recap.

Note:

If Center has not been installed, see the *ASG-Center Installation Guide* at this time.

Step 1 - Modifying CNTL Library Members

Note:

An installation checkout form is included in "Installation Checkout" on page 15 to assist in the installation.

To install the Recap sample AKR

- Modify and execute VIAXIAKR JCL by specifying the correct values for these parameters:

Parameter	Value
PERMUNT	Specify the default unit device name used for allocating the sample AKR dataset. The default value is SYSDA.
PERMVOL	Specify the volume serial used for the AKR dataset. By default, there is no volume serial number.
SAMPAKR	Specify the dataset name for the sample AKR. The default is ASG.RCPSAMP.AKR.
SYSOUT	Specify the correct SYSOUT character.
TAPEUNT	Specify the tape unit device name.
TAPEVOL	Comment or uncomment the TAPEVOL statement to indicate whether you have one or two product install tapes.

To override the default Recap installation options

Perform these steps only to override Recap default installation options.

1 Edit VIA$PRMX (the Recap installation options member), and modify or add the appropriate options.

Note:

See the installation options appendix in the *ASG-Center Installation Guide* for information on changing the installation option default values.

This table contains a list of the Recap specific installation option parameters:

Character-Colon	Report-Enterprise-Exception
Character-Vertical-Bar	Report-Enterprise-Metrics
Report-Appl-Comparison	Report-Executive-Summary
Report-Appl-Definition	Reports-Lines-Per-Page
Report-Appl-Exception	Report-Master-Index
Report-Appl-FunctionPoint	Report-Pgm-Comparison
Report-Appl-Metrics	Report-Pgm-Metric-History
Report-Appl-Progress	Report-Program-Progress
Report-Banner-Page	

Recap users may override installation options when they are generating reports by adding parameters to the execution JCL.

Note:

By default, the Recap Executive Summary is printed in mixed case using the text in CNTL member VIAXESUM. An upper case version of the Executive Summary is included in the CNTL dataset as member VIAXESUU. Each user can change the during execution of the product. To make the change, select File ▸ Options from the File - Reports pop-up and specify the desired member name.

2 Modify VIA$PRMS, the Center default installation options CNTL member, to override installation default options.

The installation option required for the Workstation Server is in ASG.VIACENxx.CNTL and shown below. Modify this option to fit your specific requirements.

```
Work-SYSDA=SYSDA
```

Specify the default unit device name used for allocating a temporary dataset. The default value is SYSDA.

Step 2 - Adding Recap Load Modules to MLPA/PLPA

The Recap main load modules VIAXBTCH and VIAXMAIN are re-entrant, and available for location in Extended LPA. These are the advantages of using Extended LPA:

- A reduction of the memory requirement per user
- An overall decrease in required swap space
- Performance improvements

Moving these modules to MLPA/PLPA is optional. It is recommended that the original ESW load library (from the installation tape) be kept as a staging library so that any required PTFs can easily be applied. You can copy the re-entrant modules to Extended LPA and the non-reentrant modules to a separate user library. These steps also require changes to user logons or product allocations. The CNTL library contains two members, VIASLPAJ and VIASLPXJ, that you can use to do these copy steps.

Note:

Do not use the ISPF 3.3 copy feature to copy these modules because some of them have aliases.

Step 3 - Customizing Panvalet, Librarian or User Source Manager

Panvalet Customization

To customize Panvalet

Note:

Do not perform step 1 if you are using Panvalet R12 or above, and the module PAM is available in LINKLST or LPA.

1 Edit CNTL member VIASPAMJ and specify a valid JOB card and the correct values for these parameters:
   - VIASOFT
   - ASMBLR
   - CENTER
   - PANLIB
   - SYSOUT
   - SYSDA

2 Submit this job to assemble and link-edit the Panvalet VIASPAM module.

If Panvalet requires changes to its customized edit panel, these changes may need to be included in the ESW panels VSPENPAN, VSPE2PAN, and VSPEDPAN. If this situation occurs, contact the ASG Service Desk for instructions

If the Panvalet load library is allocated under ISPLLIB and the LIBDEF facility is used, WTP generated `MEMBER NOT FOUND` warning messages display each time you select a Panvalet member. Try these alternatives to correct the problem:

- Adding Encore allocations to LOGON and bypassing LIBDEF processing.
- Adding the Panvalet load library allocation to VIALLIB in LIBDEF processing.
- Setting WTPMSG OFF (not recommended).

Librarian Customization

To customize Librarian

1 Edit CNTL member VIASFAIJ and specify a valid JOB card and the correct values for these parameters:

- VIASOFT
- ASMBLR
- CENTER
- LIBRLIB
- LIBRMAC
- SYSOUT
- SYSDA

2 If you are running on Librarian R3.9, edit CNTL member VIASFAIR and comment out the four lines containing these delete statements:

```
DELETE EPLOC=XFAIROPN
DELETE EPLOC=XFAIRMOD
DELETE EPLOC=XFAIRREC
DELETE EPLOC=XFAIRCLS
```

3 Submit this job to assemble and link edit the Librarian VIASFAIR module.

If Librarian requires changes to its customized edit panel, these changes may need to be included in the ESW panels VSPENLIB, VSPEDLIB, and VSPE2LIB. If this situation occurs, contact the ASG Service Desk for instructions.

If the Librarian load library is allocated under ISPLLIB and the LIBDEF facility is not used, WTP `MEMBER NOT FOUND` warning messages display each time you select a Librarian member. Try these alternatives to correct the problem:

- Adding Encore allocations to LOGON and bypassing LIBDEF processing.
- Adding the Librarian load library allocation to VIALLIB in LIBDEF processing.
- Setting WTPMSG OFF (not recommended).

Other Source Managers

To support user developed or other vendor developed source managers

1. Modify the distributed CLIST VIAEDUSR according to the instructions in the CLIST. VIAEDUSR is invoked when the User Source manager option is selected from the Modify Library pop-up. The panels that may need to be customized are VSPEDUSR, VSPE2USR, and VSPENUSR.

2. You can make changes to the Options - COPY/Include Libraries screen (VEPEOPTS) to reflect the alternate source manager and dataset or member names used.

Step 4 - Invoking Recap

Note:

Proceed to "Step 5 - Validating Recap" on page 11 if the ESW products menu has already been installed.

To invoke Recap from an ISPF panel

- Use these panel definition cards to add a Recap option to the ISPF Primary Menu or another dialog menu. This line can be used to describe the Recap option to the user:

```
% S +Recap - ASG Application Inventory Analysis Tool
```

This line can be used to invoke Recap based on the user selection of the letter S:

```
S, 'CMD(%RECAP) NEWAPPL(VIAX)'
```

Note:

After updating the ISPF environment, it may be necessary to re-enter ISPF before the facilities are available.

To invoke Recap with a CLIST

- Type `TSO VIARECAP` on the command line in the ESW primary panel. The VIARECAP CLIST invokes the RECAP CLIST while specifying the NEWAPPL(VIAX) parameter to set the correct application ID.

Step 5 - Validating Recap

To verify that the installation completed successfully

Note:

The dataset names used in these validation steps are the default installed names. If you have changed them, use the changed names where the default names have been specified.

1 To test the logon library allocations, enter Recap by selecting the correct option for your site.

Note:

If you installed Recap as described in "Step 4 - Invoking Recap" on page 10, use the appropriate ISPF menu selection or the CLIST.

If you installed the ESW product menu as described in the *ASG-Center Installation Guide*, use the appropriate ISPF menu selection or the CLIST to display the ESW product primary screen.Select Measure ▸ Portfolio to display the Recap primary screen.

If you start Recap using the ESW product primary screen, the product name displays as ESW - Portfolio Analysis.

2 Select Help ▸ About. This allows you to verify the product releases and levels of Recap and Center that have been installed. The name, release number, maintenance level, and operating system displays. Press PF3/15 to exit the Help - About pop-up.

3 Review or modify the Recap options by selecting Options on the action bar:

a Select Options ▸ Product parameters to display the Options - Product Parameters pop-up. Review or modify the product parameters and press PF3 to exit.

b Select Options ▸ Product allocations to display the Options - Product Allocations pop-up. Review or modify the product allocations and press PF3 to exit.

c Select Options ▸ Log/List to display the Options - Log/List Definition pop-up. Review or modify the Log file defaults.

Enter the JOB statement information and press PF3 to exit.

d Select Options ▸ PF keys to display the Options - PF Key Definition pop-up. Review or modify the PF key definitions. Press Enter to switch between PF keys 1 through 12 and 13 through 24. Press PF3/15 to exit the Options - PF Key Definition pop-up.

4 To allocate an AKR, select File ▸ AKR utility to display the File - AKR Utility pop-up.

Note:

If you have already created an AKR when validating another ESW product, proceed to step 5 on page 13.

a Complete the File - AKR Utility pop-up by entering the name of an AKR to be allocated. Type `A` in the command input area and press Enter.

Note:

The fields on the File - AKR Allocate/Expand pop-up vary depending on the settings for the installation options AKR-DSORG-VSAM and SMS in the Center installation options file.

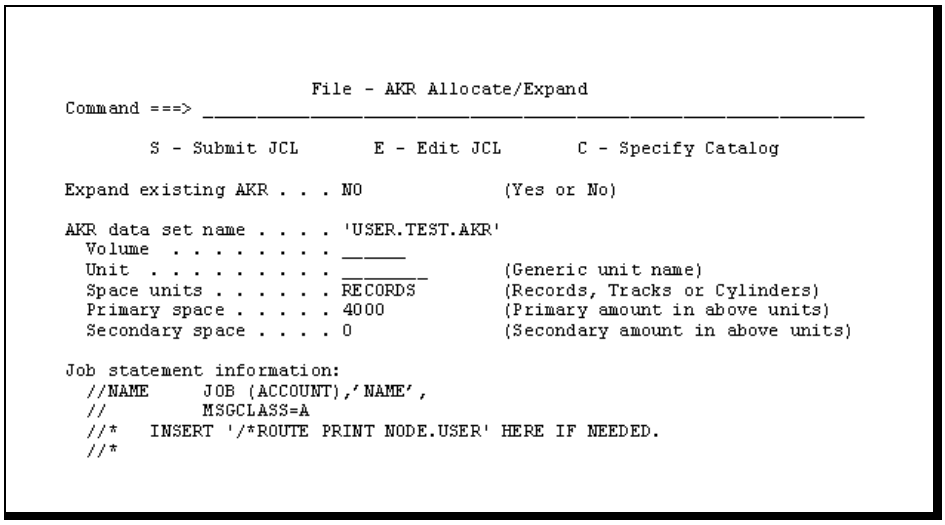
b Verify that the AKR name is correct on the File - AKR Allocate/Expand pop-up. Enter the appropriate values for the Management Class, Storage Class, and Data Class if you are using SMS managed datasets.

If you did not specify SMS managed datasets in the installation options file while installing Center, the fields pertaining to SMS do not display. In that case, enter these values as required:

- Type the value for VOLUME where the permanent AKR is to be placed.
- Review the Space Units and Space Amount values.
- Type the appropriate UNIQUE parameter for the volume selected if you are allocating a VSAM AKR.
- If this dataset needs to be cataloged under a user catalog, type C in the command input area to display the AKR Catalog Information pop-up. Enter the Catalog DSN and password as required and press PF3 to exit.
- Type the JOB statement information for your site and submit the job by typing `S` in the command input area.
- Verify that the AKR was successfully allocated and initialized.
- Press PF3 (END) until you reach the Recap primary screen.

Once allocated, the AKR allocate utility has been validated. Figure 6 shows the File - AKR Allocate/Expand pop-up using SMS and a VSAM AKR.

Figure 6 • File - AKR Allocate/Expand with SMS and a VSAM AKR



```
                        File - AKR Allocate/Expand
Command ===> ____________________________________________________________

        S - Submit JCL       E - Edit JCL       C - Specify Catalog

Expand existing AKR . . . NO              (Yes or No)

AKR data set name . . . . 'USER.TEST.AKR'
  Volume  . . . . . . . . _____
  Unit  . . . . . . . . . _______         (Generic unit name)
  Space units . . . . . . RECORDS         (Records, Tracks or Cylinders)
  Primary space . . . . . 4000            (Primary amount in above units)
  Secondary space . . . . 0               (Secondary amount in above units)

Job statement information:
  //NAME     JOB (ACCOUNT),'NAME',
  //         MSGCLASS=A
  //*   INSERT '/*ROUTE PRINT NODE.USER' HERE IF NEEDED.
  //*
```

5 Open the application from the sample AKR (see "Step 1 - Modifying CNTL Library Members" on page 6) by selecting File ▸ Open application and enter this information on the File - Open Application pop-up:

a Type `ASG.RCPSAMP.AKR` (the sample AKR) in the AKR dataset name field.

b Type `SALES` in the Application Name field.

c Press Enter. This action opens the AKR and redisplays the primary screen.

6 Run the reports of the opened application by selecting File ▸ Reports.

a To submit the reports job, press PF6 (submit JCL) to display the Submit - Report Close Confirmation screen.

b Press Enter to continue.

7 Verify Recap report formatting and correctness.

a Route the reports job SYSOUT to the printer(s) that are normally used to print Recap reports.

b Separate the Recap reports from the rest of the job output.

c Review the reports to ensure proper formatting. If the printer to be used does not provide vertical bars or colons, it may be necessary to provide replacement characters in the default options.

Note:

See the *ASG-Center Installation Guide* for details about replacement character install options.

The customization and checkout of Recap is complete.

Appendix A
Installation Checkout

Company: _____

Installer: _____

Date: _____ / _____ / _____

AKR Utility Test

OK	Pending	Action
		Perform these actions on the AKR Utilities pop-up:
_____	_____	• Allocate a new temporary AKR.
_____	_____	• Expand the new temporary AKR using the EDIT JCL option on the AKR Allocation pop-up.
_____	_____	• Delete the temporary AKR by entering this on the command line: `TSO DELETE 'temporary.akr.dsn'`

Product Test

Note:

Testing the Application Analyzer requires loading all variations of COBOL, source managers, and preprocessors into the AKR.

OK	Pending	Action
_____	_____	Run all Recap reports for the SALES application within the Recap demonstration AKR, ASG.RCPSAMP.AKR. This AKR is downloaded using the JCL in 'ASG.VIACEN*xx*.CNTL(VIAXIAKR)', where *xx* is the current release. Print the Recap reports and verify formatting.
_____	_____	Define a few user applications. Include programs from different source libraries using different copy libraries with various compile parameters and levels of COBOL.
_____	_____	Analyze and run all Recap reports for the defined user applications to test the preprocessors and source managers. Print the Recap reports and verify formatting. Once all user applications have been successfully tested, delete the demo applications from the AKR using the AKR Directory pop-up or the VIASAKRU JCL.
_____	_____	Reanalyze and run all Recap reports for a user-defined application. Print the Recap reports and verify formatting. Verify that the old and new values are shown on each of the Metrics History graphs, as well as the date the graph was requested for generation.

Log File Test

OK	Pending	Action
_____	_____	Enter the KEYS command to verify that the default PF key assignments match those shown in the *ASG-Recap User's Guide*.
_____	_____	Test the log file allocation using DEBUG LOG to force the log file allocation. Follow that command with the PRODLVL command to force output to the log file.
_____	_____	Test the log file job submission facility by selecting Options ▸ LOG/LIST from the Options pull-down, typing `1`, and then pressing Enter to release the log file to print.
_____	_____	Edit and submit the VIASAKRX JCL to test the AKR expansion job. Verify that the VIASAKRX job ran successfully.

The installation is now complete.

Appendix B
Recap CNTL and CLIST Members

Recap CNTL Members

Member	Description
VIA$PRMX	Recap installation option parameters
VIAXCALC	COBOL training program
VIAXDCVS	JCL to compile training programs
VIAXDEMO	COBOL training program
VIAXDEMO1	COBOL training program
VIAXESUM	Report generator text used to produce the Executive Summary Report
VIAXIAKR	JCL to install the Recap sample AKR
VIAXIMPT	Sample import definition
VIAXLACV	JCL to compile training programs
VIAXMAIN	COBOL training program
VIAXMAST	COBOL Training COPY member
VIAXPRT	COBOL Training program

Recap CLIST Members

Member	Description
RECAP	Used by the VIARECAP CLIST to invoke the Recap product from native TSO.
VIAXTEST	Invokes the Recap program under TSO test for diagnostic purposes only.
VIARECAP	Invokes the Recap program from a CLIST using the correct application ID (VIAX).
VIAXJCLE	Displays JCL and errors when a JCL error has been detected during JCL extraction.

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